Related Pending Application
Related Case Serial No: 07/816 592
Related Case Filing Date: 03-23-01

What is claimed is:

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circulator.

- 1. A dispersion compensator employing an arrayed waveguide grating comprising:
- 5 at least one input waveguide,
 - a first slab waveguide,
 - an arrayed waveguide having a plurality of channel waveguides,
 - a second slab waveguide, and
- a plurality of output waveguides are formed on a substrate,

said dispersion compensator further comprising Bragg gratings, each having a dispersion compensating function, formed on said plurality of output waveguides.

- 2. The dispersion compensator according to claim 1, wherein said substrate is formed of silicon or glass.
 - 3. A dispersion compensator wherein planar waveguides provided with a predetermined number of Bragg gratings each having a dispersion compensating function are connected to output waveguides of an arrayed waveguide grating.
 - 4. The dispersion compensator according to claim 3, wherein said planar waveguides are a plurality of waveguides formed on a substrate.
- 5. The dispersion compensator according to claim 4, wherein said substrate is formed of silicon or glass.
 - 6. A dispersion-compensating module comprising:
 - a circulator having an input port, an output port, and a connecting port,

the dispersion compensator, according to claim 1 or 3,

30 connected to the connecting port of said circulator, and
an optical demultiplexer comprising the arrayed
waveguide grating connected to the output port of said